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**CONFIDENTIAL**

*Illinois Environmental Protection Agency*

L 1631215017 - St. Clair County  
Storling Steel Foundry, Inc.  
ILD #006286520  
SF/HRG

**CERCLA**

**PRESCORE**

**SCORESHEET**

**CONFIDENTIAL**

Record Information

1. Site Name: Sterling Steel Foundry  
(as entered in CERCLIS)
2. Site CERCLIS Number: ILD984903245
3. Site Reviewer: Lynnette Ann Mick
4. Date: September 15, 1993
5. Site Location: Sauget/St.Clair, Illinois  
(City/County,State)
6. Congressional District: 22
7. Site Coordinates: Single  
Latitude: 38 35'42.0" Longitude: 90 10'00.0"

Site Description

1. Setting: Urban
2. Current Owner: Other - Publically owned company
3. Current Site Status: Active
4. Years of Operation: Active Site , from and to dates: 1922 to present
5. How Initially Identified: State/Local Program
6. Entity Responsible for Waste Generation:
  - Manufacturing
  - Metal Forging and Stamping
7. Site Activities/Waste Deposition:
  - Surface Impoundment
  - Waste Piles
  - Airborne Release/Incineration

Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Solvents
- Pesticides/Herbicides
- Metals
- PCBs

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- Not Applicable

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 3410.0

14. Residential Population Within 4 Miles: 93278.0

Water Use Information

15. Local Drinking Water Supply Source:

- Surface Water (within 15 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: Not Applicable

17. Drinking Water Supply System Type for Local Drinking

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NPL Characteristics Data Collection Form  
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Water Supply Sources:

- Not Applicable

18. Surface Water Adjacent to/Draining Site:

- Other - ditch
- Wetland

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HRS DOCUMENTATION RECORD  
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	Score
Ground Water Migration Pathway Score (Sgw)	0.00
Surface Water Migration Pathway Score (Ssw)	0.00
Soil Exposure Pathway Score (Ss)	1.14
Air Migration Pathway Score (Sa)	26.79
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Site Score	13.41

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

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GROUND WATER MIGRATION PATHWAY SCORESHEET  
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GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Cahokia Alluvium		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	330
3. Likelihood of Release	550	330
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+03
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	56
Targets		
7. Nearest Well	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	0.00E+00
12. Targets (including overlaying aquifers)	**	0.00E+00
13. Aquifer Score	100	0.00
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	0.00

\* Maximum value applies to waste characteristics category.  
\*\* Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	260
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	7
3c. Potential to Release by Flood (lines 3a x 3b)	500	70
4. Potential to Release (lines 2d+3c)	500	330
5. Likelihood of Release	550	330
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10000
8. Waste Characteristics	100	100
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	0.00E+00
12. Targets (lines 9+10d+11)	**	0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

\* Maximum value applies to waste characteristics category.  
 \*\* Maximum value not applicable.

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET  
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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	330
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	1000	1000
Targets		
18. Food Chain Individual	50	0.00E+00
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	0.00E+00
19c. Pot. Human Food Chain Contamination	**	0.00E+00
19d. Population (lines 19a+19b+19c)	**	0.00E+00
20. Targets (lines 18+19d)	**	0.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

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 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET  
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SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	330
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	10000
25. Waste Characteristics	1000	1000
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	0.00E+00
26c. Potential Contamination	**	0.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	0.00E+00
27. Targets (line 26d)	**	0.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.00

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 \*\* Maximum value not applicable.

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GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET  
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GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: Cahokia Alluvium		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	3
2c. Depth to Aquifer	5	5
2d. Travel Time	35	25
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	330
3. Likelihood of Release	550	330
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	2.00E+03
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	56
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Targets (lines 7+8d+9)	**	0.00E+00
11. DRINKING WATER THREAT SCORE	100	0.00

\* Maximum value applies to waste characteristics category.  
\*\* Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	330
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	1.00E+07
14. Hazardous Waste Quantity	*	10000
15. Waste Characteristics	1000	560
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	0.00E+00
18. Targets (lines 16+17d)	**	0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

\* Maximum value applies to waste characteristics category.  
\*\* Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	330
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	1.00E+06
22. Hazardous Waste Quantity	*	10000
23. Waste Characteristics	1000	320
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.00
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.00

\* Maximum value applies to waste characteristics category.  
\*\* Maximum value not applicable.

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 SOIL EXPOSURE PATHWAY SCORESHEET  
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SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	100
4. Waste Characteristics	100	32
Targets		
5. Resident Individual	50	0.00E+00
6. Resident Population		
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	0.00E+00
6c. Resident Population (lines 6a+6b)	**	0.00E+00
7. Workers	15	5.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	5.00E+00
11. RESIDENT POPULATION THREAT SCORE	**	8.80E+04

\* Maximum value applies to waste characteristics category.

\*\* Maximum value not applicable.

\*\*\* No specific maximum value applies, see HRS for details.

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 SOIL EXPOSURE PATHWAY SCORESHEET  
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SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	1.00E+01
13. Area of Contamination	100	8.00E+01
14. Likelihood of Exposure	500	5.00E+01
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	100
17. Waste Characteristics	100	32
Targets		
18. Nearby Individual	1	1.00E+00
19. Population Within 1 Mile	**	3.00E+00
20. Targets (lines 18+19)	**	4.00E+00
21. NEARBY POPULATION THREAT SCORE	**	6.40E+03
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	1.14

\* Maximum value applies to waste characteristics category.  
 \*\* Maximum value not applicable.

## AIR PATHWAY SCORESHEET

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AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	300
2b. Particulate Potential to Release	500	340
2c. Potential to Release	500	340
3. Likelihood of Release	550	340
Waste Characteristics		
4. Toxicity/Mobility	*	1.00E+04
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	100
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	4.20E+01
8d. Population (lines 8a+8b+8c)	**	4.20E+01
9. Resources	5	0.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	3.00E+00
10c. Sens. Environments(lines 10a+10b)	***	3.00E+00
11. Targets (lines 7+8d+9+10c)	**	6.50E+01
AIR MIGRATION PATHWAY SCORE (Sa)	100	2.68E+01

\* Maximum value applies to waste characteristics category.

\*\* Maximum value not applicable.

\*\*\* No specific maximum value applies, see HRS for details.

## REFERENCES

Sterling Steel Foundry - 09/16/93

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3. Illinois Environmental Protection Agency. September 23, 1992. CERCLA Screening Site Inspection Report for Sauget Sites Area #1 prepared by Tim Murphy, Springfield, Illinois.
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5. ISWS Hydrology Division. July 26, 1993. Public & Industrial, Commercial Survey (PICS) Database and Private Well Database for St. Clair Co., T 1N, 2N and R 9W, 10W.
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9. U.S. Geological Survey, 1974, Monks Mound, IL. Quadrangle 225A; 1982, Granite City, IL-MO Quadrangle 225B; 1974, Cahokia, IL-MO Quadrangle 225C; 1982, French Village, IL, 225D (all 7.5 minute series).
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12. Bureau of the CENSUS. County and City Data Book. 1990 U.S. Census
13. Illinois Department of Transportation. April 7, 1988. Aerial photograph.
14. U.S. Dept. of the Interior. Fish and Wildlife Service, National Wetlands Inventory Maps: Monks Mound, IL, Granite City, IL, Cahokia, IL, French Village, IL.